BRUHAT BENGALURU MAHANAGARA PALIKE
YELAHANKA DIVISION

Name of Work: Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]

FOURTH AND FINAL BILL
BAR CHART

Total Estimated Cost is Rs. 213.50 Lakhs

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#14, 3rd floor, Hithaa Complex, 80ft. Ring Road, Nagadevanahally, Kengeri, Bengaluru 560056
Email Id: **info.ninetechinfra@gmail.com** Contact: 7019556969/ 9535584464

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work:-Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Maneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

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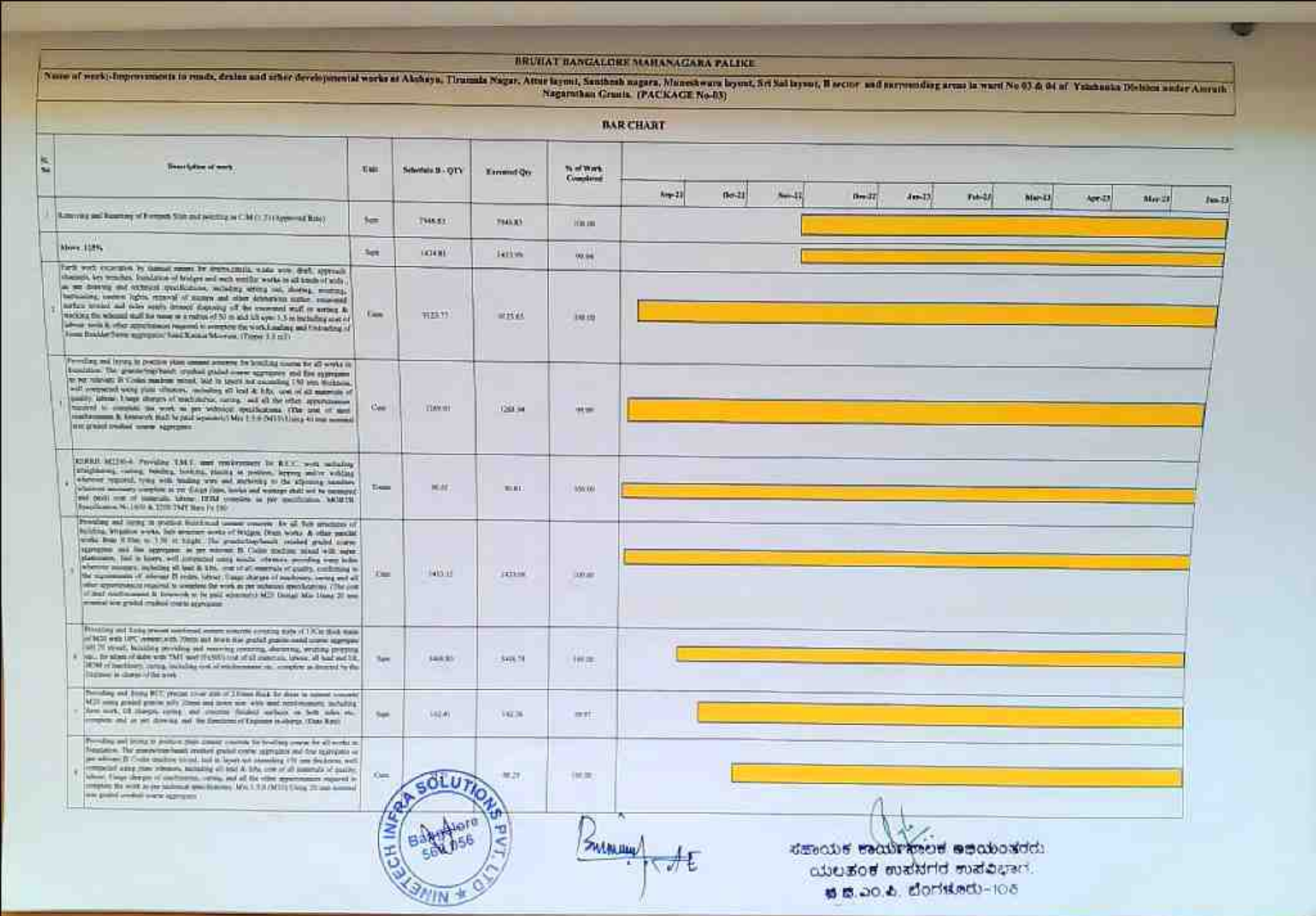
Sl. No	Description of work	Unit	Schedule B - QTY	Executed Qty	% of Work Completed
1	Removing and disposing of Rubbish Soil and jungle as C.M (1.71(Approved Rate)	Sqm	7948.83	7948.83	100.00
	Above 125%	Sqm	1424.80	1423.96	99.94
2	Earth work excavation by manual means for drains,culvert, waste weir, shaft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, removed surface inundation and water supply pumped disposing off the excavated stuff or setting & stacking the selected stuff for reuse at a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work.Loading and Unloading of stone Boulder/Stone aggregate/ Sand/Kankar/Murrum. (Volume 1.5 cu.)	Cum	9125.77	9125.65	100.00
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/metbasalt crushed graded coarse aggregate and fine aggregate as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinaries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 (M10) Using 40 mm nominal size graded crushed coarse aggregate	Cum	1269.01	1268.94	99.99
4	KSRRD: M(2)6-6: Providing TMT steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and marketing to the adjoining members wherever necessary complete as per Design plans, hooks and wastage shall not be measured and paid) cost of materials, labour, DESM complete as per specification. MORTH Specification No.1600 & IRC: 21MT Sheet Fe 550	Tonne	90.02	90.01	100.00
5	Providing and laying in position fresh/mixed cement concrete for all Sub structure of building, Irrigation works, Sub structure works of bridges, Drain works & other similar works. Ratio 1:3 Thic ss 1:30 cc 1:4:8 . The granite/metbasalt crushed graded coarse aggregate and fine aggregate as per relevant IS Codes machine mixed with water stabilization, laid in layers, well compacted using mech. vibrators, providing curing holds wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregate	Cum	1423.12	1423.08	100.00
6	Providing and fixing precast reinforced cement concrete covering slabs of 1.5 to thick made of M20 with OPC cement with 20mm and down size graded granite metal coarse aggregate (all IS sieves), including providing and removing centering, shuttering, securing projecting rods, for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and Lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work	Sqm	5468.80	5468.78	100.00
7	Providing and fixing RCC precast cover slab of 2.0mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size, wire mesh reinforcement, including form work, OR charges, curing and concrete finished surfaces on both sides etc., complete and as per drawing and the directions of Engineer in charge. (Class B.m)	Sqm	142.41	142.36	99.97
8	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/metbasalt crushed graded coarse aggregate and fine aggregate as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinaries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:5:10 (M10) Using 20 mm nominal size graded crushed coarse aggregate	Cum	90.29	90.29	100.00



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9	Providing and fixing pre cast wood veneer concrete kerb stones made out of M20 work out and factory made 114 and 165 mm respectively, 450mm thick and 450mm in length, bedded with CM 1:3 (cement and sand) mortar including formwork, curing, including cost of materials, labour charges of mixing, loading and unloading, load and lift, transportation etc complete as directed by the Engineer in Charge of the work. (Payment Basis)	Nos	1083.00	1084.56	100.09	
10	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	Sqm	1739.83	1739.83	97.14	
11	Earth work in surface excavation by mechanical means for levering & leveling the ground for all works other than trenchwork in all kinds of soil & upto depth not exceeding 30 mtrs as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other obstructive matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or arrang & making the selected earth for lead as a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work (	Cum	18410.15	18410.15	100.00	
	Above 125%	Cum	2760.61	2760.20	99.98	
12	Construction of formation /sub-base of required grading as per design existing to a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401	Cum	3304.75	3304.75	100.00	
	Above 125%	Cum	285.00	285.81	99.97	
13	Providing, laying, spreading and compacting graded stone aggregate in wet mix macadam specification including processing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader to full base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density	Cum	7011.23	7011.23	100.00	
	Above 125%	Cum	871.04	871.43	100.04	
14	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.9 kg per m2 using mechanical means.	Sqm	14668.16	14668.16	100.00	
15	Providing and applying tack coat with SS1 Bituminous Emulsion using mechanical sprayer Emulsified at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical brooms	Sqm	74395.72	74395.72	100.00	
16	Providing and laying Dense Graded Bituminous Macadam with MORT TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 505 complete in all respects.	Cum	2344.67	2344.67	100.00	
17	Providing and laying Bituminous Concrete with 40 MT TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with Bituminous binder VG-30, @ 5.0 per cent by weight of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.	Cum	1017.43	1017.43	100.00	
18	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gm per sqm, thickness of 2.5 mm is inclusive of surface applied glass beads as per IRC:35-2015. The finished surface to be level, uniform and free from ripples and holes.	Sqm			100.00	

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19	Providing and laying in position plain cement concrete (in breaking strength of aggregate should not be less than 300 kg/cm²) for all works in foundation. The granite stone/hard crushed, graded coarse aggregates and fine aggregates as per relevant IS. 4 nos machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all load & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) M.e. 7.5 (1:3:6) Using 40 mm nominal size graded crushed coarse aggregate	Cum	893.65	893.65	99.00	
20	Providing and laying in position plain cement concrete (in breaking strength of aggregate should not be less than 300 kg/cm²) for all works in foundation. The granite stone/hard crushed, graded coarse aggregates and fine aggregates as per relevant IS. 4 nos machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all load & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) M.e. 7.5 (1:3:6) Using 40 mm nominal size graded crushed coarse aggregate	Cum	357.09	356.90	99.95	
21	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Centre / ISO 2.2 MOD (Fresh), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.3 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 1.25 thickness thick polythene film, workers,	Cum	335.89	334.90	99.97	
22	Providing and laying heavy duty rubber sheets 10 mm thick reinforcement pavers, using pressed and coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 280 kg per sq.cm (over 50mm thick sand bed [average thickness] and compacting with plate vibrator having 5 mm compaction. Joint Quality Raising joint of sand underneath to come up to pavers joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications	Sqm	2955.57	2955.42	99.99	
23	Cost of Haulage Packeting Loading and Unloading Taking output 10 t load and load 10 km = 100 Unit	Kkt	29557.23	29551.23	100.00	
24	Earth work excavation in Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including cutting out, shoring, sheathing, barricading, caution lights, including cleaning of excavated surfaces, dispersing soil as directed the excavated earth or moving & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work Depth exceeding 1.5 m, but not exceeding 3.0 m (Item No.8, Item No. 1 (1)) of PWD SR 2019-20)	Cum	252.78	252.78	100.00	
25	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/hard/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS. 4 Cotter machine mixed with water stabilizers laid in thickness layers, well compacted using needle vibrators, including all load & lifts, cost of all materials, quality conforming to the requirements of relevant IS codes , Labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 (Design Mix) Using 20 mm nominal size graded crushed coarse aggregates)	Cum	104.93	104.93	100.00	
26	Providing and laying in position Reinforced cement concrete for all Super structure of buildings , Road works, Water works, Irrigation works & super structure works of bridges upto 3 m in height. The granite/hard/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Cotter machine mixed with super plasticizers laid in layers, well compacted using needle vibrators. The cost includes all load & lifts, cost of all materials, quality conforming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M25 (Design Mix) Using 20 mm nominal size graded crushed coarse aggregates	Cum	11.86	11.86	100.00	
27	Providing Non Shrink materials with hard stone in foundation & plinth with Cement mortar (M.25 ratio) , 4 course each)	Cum	134.14	134.14	100.00	
	Above 120%	Cum	2.4*	2.4*	100.00	

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	[illegible]	Cum	[illegible]	[illegible]	[illegible]	
29	Providing Hydro-electrically Control box of grade Fe-6500 or more steel reinforcement for R.C.C. work including manufacturing, cutting, bending, shaping in position, binding and securing in required position wherever necessary complete as per Design including cost of material, labour, cage charges complete as per specifications. (The lips and windows shall not be measured separately)	Kgs	1045.04	1045.04	100.00	
30	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having Block density more than 1800Kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2212-2002 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	339.07	339.07	100.00	
31	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x190x220mm having Block density more than 1800Kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2212-2002 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	90.56	90.56	100.00	
	Above 125%	Sqm	248.10	248.10	100.00	
32	Providing and laying water proofing treatment to the floor with PU based single component cementless, pore polymerizing based coating on New terrazzo/Cement/tile portion of WC floor(new, old) applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.5kg per m2 to achieve final DFT of dry film thickness of 1mm including prime coat of epoxy primer @150 g per m2 and	Sqm	154.81	154.81	100.00	
	Above 125%	Sqm	34.29	34.29	99.99	
33	Providing Hume wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plinth private excluding cost of cement concrete and side channels but including cost of materials, labour, usage charges complete as per specifications.	Sqm	6.08	6.08	99.92	
	Above 125%	Sqm	4.39	4.39	100.00	
34	Fixing of door frame in an existing opening including redesigning frame to floor and walls, what cutting necessary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 75mm size where not greater metal fastening two coats of coal tar in sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.	Nos	5.00	5.00	100.00	
	Above 125%	Nos	4.00	4.00	100.00	
35	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemically treated hard wood battens and internal frame with minimum 45 mm wide wooden frame internal door shutters covered with resin bonded wooden plates (one required for pressed and laminated on both sides of the door using liquid plastic formaldehyde resin as per IS specifications 2202 (part-I) 1991. Rate inclusive complete as per specification. If one side flush with side commercial	Sqm	27.12	27.12	100.00	

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	Sqm	11.96	11.96	100.00	
	Sqm	649.33	649.33	100.00	
	Sqm	11.83	11.83	100.00	
Above 125%	Sqm	5.33	5.33	100.00	
	Sqm	944.63	944.63	100.00	
Above 125%	Sqm	16.99	16.99	99.99	
	Sqm	589.08	589.08	100.00	
	Sqm	283.13	206.13	130.00	
Above 125%	Sqm	18.48	18.48	100.00	
	Sqm	24.73	18.73	131.99	
	Sqm	33.37	33.37	100.00	
	Sqm	141.83	141.83	100.00	

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	Above 125%	Sqm	31.27	31.27	100.00	
43	Providing White washing with lime to give an even shade. New work (Three coats) with lime of approved quality, including cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	399.38	399.38	100.00	
44	Finishing walls with Acrylic Smooth exterior paint of required shade. New work (Two coat applied @ 1.43 kg/10 m◆ over and including priming coat of exterior primer applied @ 2.22 kg/10 m◆) with paint of approved quality to give an even shade after thoroughly hacking the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and total repair smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	399.38	399.38	100.00	
45	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade. Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly washing the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and total repair smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	18.00	18.00	100.00	
46	Providing and fixing aluminium glazed front shutters (1100x127 mm with necessary screws etc. complete	Nos	14.00	14.00	100.00	
47	Providing and fixing 20l enamel bd S. pressed bad Gorges bright finished with necessary screws etc. (Type:SS) (Class:	Nos	5.00	5.00	100.00	
48	Providing and fixing bright finished brass swan necks (barrel type) with necessary screws etc. Complete (Size:15mm)	Nos	8.00	8.00	100.00	
49	Providing and fixing white vitreous china, orthodox type water closet (Lavatory type) with seat and lid, (S type low level white vitreous china flushing cistern A.C.P. flush bend with flange & C.I. brackets, 40 mm flush bend, overflow arrangement + 02 specials of standard make and manufacture, period consisting of approved materials, design complete, including painting of flange and brackets, cutting and making good the walls and floors wherever required. W.C. pan with P/S marked white solid plastic seat and lid	Nos	6.00	6.00	100.00	
50	Providing and fixing white vitreous china lavatory unit with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. bend waste and 40mm C.P. brass trap with necessary C.P. brass screws complete, including painting of flange and brackets, cutting and making good the wall wherever required. Size 600x450x250 mm	Nos	6.00	6.00	100.00	
51	Providing and fixing white vitreous china flat back half shell urinal of size 380x280x330 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, complete with screws and clamps (all in C.P. brass) with waste fitting as per IS: 2326, C.I. trap with inlet plastic and other couplings in C.P. brass, including painting of flange and cutting and making good the walls and floors wherever required. Single bell shell urinal with 1.5mm P.V.C. automatic flushing cistern	Nos	2.00	2.00	100.00	
52	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC pipes & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m intervals. The includes providing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the walls including testing of water connection as per direction of Engineer in charge. Concealed work including cutting chases and making good the walls etc. 25mm nominal bore pipes	m	56.25	56.25	100.00	
	Above 125%	m	38.75	38.75	100.00	

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53	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC pipes & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc. 32mm nominal dia pipes	m	60.00	60.00	100.00	
54	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC pipes & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc. 32mm nominal dia pipes	m	50.00	50.00	100.00	
55	Supplying PVC weights pipes conforming to IS 4985/2000 with latest amendments and necessary to workable, welding and lowering into trenches, laying true to line and level and perfect jointing at joints, testing and commissioning, including loading unloading at both destinations and cost of prime whatever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labours with all lead & lift including excavating the pipe trenches to a depth of not less than 1.5 mtrs with soft ground as ordered earth available there, the excavation etc. complete and giving necessary hydraulic test to the required pressure as per IS. (Contractor will make his own arrangements for procuring water for testing) etc. for PVC pipes 110mm dia., 6 kg/sqcm & class SP(Page No.134, Item No.5.7.1(1)(b)(SOR 6th 2021-22))	M	45.00	45.00	100.00	
56	Providing and fixing pvc metal twin stopper valve of approved quality (armored make)(V.4) (Page No. 135, Item No.5.8.1.2 of PWD SR 2021-22)	Nos	8.00	8.00	100.00	
57	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete(V.2)(Page No.133, Item No.5.5.2 of PWD SR 2021-22)	Each	4.00	4.00	100.00	
58	Providing and fixing PTMT pillar cock of approved quality and colour(15 mm nominal bore, 125 mm long brass liner, weighing not less than 1.25 gms)(V.4)(Page No.134, Item No.5.8.2.1 of PWD SR 2021-22)	Each	8.00	8.00	100.00	
59	Bomb type 16 mm single mess moulded with height of 275 mm, effective length of soil pipe 230 mm from the centre of the waste chamber, 77 mm breadth with 32 mm minimum water seal, weighing not less than 310 gms (V.4)(Page No.135, Item No.5.8.17.2 of PWD SR 2021-22)	Each	5.00	5.00	100.00	
60	Extended Conduit System Supplying heavy gauge PVC conduit pipe (Class Ais Class Bmake) conforming to IS 2509 with suitable size bends, make(PVC conduit pipes adhesive, pipe etc., and removing debris concealing the task. The conduit should be laid in the reinforcement work by using binding wires and around wires of junction boxes and pipes bends should be covered using PVC and enclosures, size wide (SEWC) (2) fish wire wherever necessary (3) Class Ais Class bmake (Page No.1, Item No.1.2.1 of PWD Electrical SR 2021-22))	m	100.00	100.00	100.00	
61	Providing and fixing board work enabled to built up services Board work, including cutting, trimming, fixing in position and supplying a printing coat of approved anti pollutant using structural steel etc., as required, fit gratings, frames, guard bar, ladder, railings, handrails, pipes and similar works including cost of materials, labour, sundry charges complete(cost complete as per specifications and as per directions of the Engineer-in-Charge (V.2 Page No.82, Item No.1.1.22.1 of PWD SR 2021-22) Item Rate (W.57.04.22)	Kg	177.10	177.10	100.00	
	Admn 125%	Kg	827.75	827.75	100.00	

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64	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2mm thick and rating at 25 J/cm with suitable size bends, metal/PVC junction boxes adhering paste etc., and running below concreting the slab. The conduit should be tied to the reinforcement rods by using binding wire and covered wave of junction boxes and pipes ends should be covered using PVC end enclosures. use with 18SWG GI fish wire wherever necessary.(25mm dia 2 mm thick (Page No:1, Item No:1.2.2 of PWD Electrical SR 2021-22)	m	100.00	100.00	100.00	
65	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by brazing 1/ or 2 bricks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.(19/20mm dia 2mm thick(Page No:1, Item No:1.2.1 of PWD Electrical SR 2021-22)	m	100.00	100.00	100.00	
66	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 32mm dia 2 mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by brazing 1/ or 2 bricks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.(32mm dia 2 mm thick (Page No:1, Item No:1.2.3 of PWD Electrical SR 2021-22)	m	100.00	100.00	100.00	
67	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 32mm dia 2.5mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by brazing 1/ or 2 bricks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.32mm dia 2.5 mm thick (Page No:1, Item No:1.2.3 of PWD Electrical SR 2021-22)	m	53.84	53.84	100.00	
	Above 125%	m	67.30		0.00	
68	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v, grade, multistranded Copper conductor single core cable in open or concealed system of wiring with specified IS-694 (1990) & conforming to GTP of Group-A. (Page No:1, Item No:2.1 of PWD Electrical SR 2021-22) 1.5 Sqm	m	200.00	200.00	100.00	
69	2.5 Sqm	m	100.00	100.00	100.00	
70	4 Sqm	m	170.00	170.00	100.00	
71	6 Sqm	m	90.00	90.00	100.00	
72	10 Sqm	m	40.00	40.00	100.00	
73	Point wiring using Copper wire without switch board/clip and wiring wherever wire visible in existing PVC Conduit using existing using 1100V Grade, 2.5MM conductor flexible multistranded FRLS PVC insulated, 2x2.5 Sq.mm Cable conforming to the GTP wherever switch, the other end of the wires shall be terminated with suitable wear lengths in a small PVC switch block, complete for each metre (32.0) Using class A materials (Page No:1, Item No:2.2 of PWD Electrical SR 2021-22). Wire point up to 3mm from tapping point or out let via switch (Page No:1, Item No:2.2.1 of PWD Electrical SR 2021-22)	Point	24.00	24.00	100.00	
74	Medium point above 3mm up to 6mm from tapping point or out let via switch (Page No:1, Item No:2.2.2 of PWD Electrical SR 2021-22)	Point	3.00	3.00	100.00	

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75	Extra point above item no 4 / Same item applying point in one bit via switch (Page No:3, Item No:2.2.3 of PWD Electrical SR 2021-22)	Point	20.00	20.00	100.00	
76	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 5/7 Type valve / indicator LINE/HV, energy meter/3 with Short circuit breaking capacity of 10K and complete wiring as required conforming to IEC/60898, 6/32 Amps DP (Page No:13, Item No.4.1.1 of PWD Electrical SR 2021-22) 6-32 Amps DP	Each	12.00	12.00	100.00	
77	6-32 Amps DP	Each	18.00	18.00	100.00	
78	40 Amps TPN	Each	8.00	8.00	100.00	
79	50-63 Amps DP	Each	8.00	8.00	100.00	
80	Supplying and fixing required MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc, with provision for fixing suitable type capacity MCBs single phase / 3 phase single door with powder coated painting. Made out of 14 SWG MS sheet/metal/Double door (Group 4) 12Way SP &N (Page No:11, Item No.2.18.4 of PWD Electrical SR 2021-22)	Each	5.00	5.00	100.00	
81	Supplying and fixing regular MCB distribution boards on wall/wood board/flush mounting using required clamps, bolts, nuts etc, with provision for fixing suitable type capacity MCBs single phase/3 phase single door with powder coated painting etc, complete Double door 8 way TP &N (Group 4A) (Page No:11, Item No.2.18.12 of PWD Electrical SR 2021-22)	Each	5.00	5.00	100.00	
82	Supplying and fixing 32 Amps isolator and energy saving DP switch with key top suitable to operate on 230 Volts, 50Hz AC supply & completely wired on existing box. (Page No:3, Item No.3.1 of PWD Electrical SR 2021-22)	Each	5.00	5.00	100.00	
83	Supplying and fixing mounting provision control / galvanized metal box suitable for mounting modular switch plates. The box should be firmly fixed /mounted after due process carried in brick/Stone/C.C wall 1-4 Ways (Page No:3, Item No.3.4.1 of PWD Electrical SR 2021-22)	Each	15.00	15.00	100.00	
84	Supplying and fixing 4×22.5W/T8 Width luxury duty cross connection Fluorescent(Low sodium ballast for fluorescent tubes - Supplying and fixing of 22.5W/T8 Width luxury duty cross connection Fluorescent(Low sodium ballast for fluorescent tubes, Class II Insulated system wire, Vacuum impregnated high quality with Low loss silicon steel laminations operated on 230V,50Hz supply with IEC 60920 (Safety) & IEC 60925 (Performance Operating voltage range from 180V to 253V, 50Hz AC power Supply (Page No:41, Item No.12.23 of PWD Electrical SR 2021-22)	Each	20.00	20.00	100.00	
85	Supply and fixing metal gas box with round hook (Page No:7, Item No.1.11 of PWD Electrical SR 2021-22)	Nos	12.00	12.00	100.00	
86	Supplying and fixing of modular switch & commonly accessories on existing modular switch plate as per IS 3854 and IS 1293 (Page No:5, Item No.3.6 of PWD Electrical SR 2021-22) 6 Amps SP Switch	Each	45.00	45.00	100.00	
87	6 Amps Four 3 pin socket	Each	25.00	25.00	100.00	

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30	15Amps SP 5 Pin	Each	15.00	15.00	150.00	
31	15Amps Flush (recessed) type DP switch	Each	13.00	13.00	130.00	
32	Supplying and flush mounting provide (one) galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due process cutting in brick/stone/CC wall (Page No.3, Item No.3.4 of PWD Electrical SR 2021-22) 1-1Ways	Each	20.00	20.00	100.00	
33	2-2Ways	Each	20.00	20.00	100.00	
34	3-3Ways	Each	20.00	20.00	100.00	
35	4-4Ways	Each	14.00	14.00	196.00	
36	5-5Ways	Each	10.00	10.00	100.00	
37	6-6Ways	Each	4.00	4.00	100.00	
38	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required size of modular screws, holes were not provided on the existing metal/PVC box. (Page No.3, Item No.3.3 of PWD Electrical SR 2021-22) 1 to 3 Module	Each	10.00	20.00	200.00	
39	4Module	Each	10.00	20.00	200.00	
40	6Module	Each	20.00	20.00	140.00	
41	8Module	Each	12.00	14.00	196.00	
42	12Module	Each	11.00	11.00	165.00	

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110	Elevation	Each	4.00	8.00	140.00	
111	Supplying capacitor type ceiling fan complete with down rod Blades, shackle, canopies for operation on 230 Volts, 50 Cycles, Single phase AC supply conforming to IS: 374:1979 and with double ball bearing motors (W/S 1200 Sweep (1400mm) Regular model	Each	9.00	8.00	1008.00	
112	Supplying and Fixing of Electronic Ballast suitable for 18 Lamp with housing made of Pre-coated steel(PCC, Operating voltage range from 180V to 265V, 50HZ AC power Supply, Ballast that works start with over voltage protection, Inbuilt current protection, De-activated lamp protection & End of Lamp life protection with PF> 0.95 & TO.deg C) = 65 degC, Operating voltage range from 180V to 265V, 50Hz AC power Supply (Page No.45, Item No 12.22.3 of PWD Electrical SR 2021-22)	Each	8.00	8.00	4320.00	
113	Fixing all types and all capacities of Incandescent / tube tubing / spot light / CFL / LED fittings station on the wall / ceiling / roboth / gutter using 2.5/0.0076" twin twisted PVC insulated wires, required Nos of round Blocks and clamps, 14/1.1 On wall / ceiling / Ballet Lantern (Page No.45, Item No 13.7.1 of PWD Electrical SR 2021-22)	Each	8.00	8.00	1008.00	
114	Geophysical investigation at site for making borewells for supplying drinking water to the habitation either through the Rural Pump MWS or P.W.S.S. by vertical electrical sounding by adopting Transit schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users including the location of the site, recommended depth of casing pipe required to seal the low saturated/sealed formation	Nos	1.00	1.00	112.00	
115	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 500 PSI & above 1100 CMT & above on all soils including over burden upto 25 m. Fixing of casing pipes, collars and cap with necessary casting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete (CP.15/1.13(c)-1 (DSR'08 SR 2231.21.3 in SI.no 8 Code No 4.01.0.6)	m	80.00	80.00	120.00	
116	80 to 100 m (Code No 4.02.0.6)	m	90.00	90.00	120.00	
117	100 to 150 m (Code No.4.03.0.6)	m	95.00	95.00	120.00	
118	150 to 200 m (Code No.4.04.0.6)	m	85.00	85.00	120.00	
119	200 to 250 m (Code No.4.05.0.6)	m	80.00	80.00	120.00	
120	250 to 300 m (Code No.4.06.0.6)	m	75.00	75.00	120.00	
121	300 to 350 m (Code No.4.07.0.6)	m	70.00	70.00	120.00	
122	350 to 400 m (Code No.4.08.0.6)	m	65.00	65.00	120.00	

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114	Supply of MS tank 1500mm nominal bore, 6mm and 4mm sawing plate grade of steel for 4/5 of wall thickness conforming to IS 4270:2002 and steel accessories, chemical resistance welded steel tubes, material and conforming to IS 1387:1993 and manufactured by basic open hearth electric or basic oxygen process or vacuum casted of S.Y.P. both ends threaded conforming to IS 554:1985 one end fixed with welded conforming to IS 4270:2003 and the other end with universal joint all shall be removable free from defects. The tubes shall be reasonably straight and should be with ISI marking weighing 25.310kg/m.(tubes include Color Abatron) 6mm	Rmt	70.00	70.00	850.00	
115	Supply and delivery of galvanized mild steel tubes of best standard length heavy duty IS: Class as per IS: 1239 (Part-I)-1990 with latest amendments with ISI Mark free end fixed with Heavy Duty collar and other end fitted with protective cover) M. seal (P. No 102, I. No. 35 / BWSSB DR 2021-22)	Each	0.00	0.00	4150.00	
116	PVC pipe - OD 110mm and 6 Kg/sqcm	Rmt	9.00	8.00	240.00	
117	Supplying and fitting 1 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with circular copper wire low resistance conductor conforming to IS 8130-1984 and virgin grade PVC insulation and pressure extra sheathed PVC sheathed suitable for working voltage upto 1100 V as per IS-694-2010 3C x 4 sqmm	Mtr	462.00	450.00	99.13	
117	Providing supplying to work site Submersible Pump Set of 1Hppn (or suitable for bore well and confirming to IS 8034:2002,3Phase, 5H Rewl & Impeller with Low cost Motor as per specifications,as per necessary amendments and instructions of engineer incharge of work. (1.00 HP - 120 LPM @ 20M to + 23 STC) Under Ebe (3 HP)	Nos	1.00	1.00	950.00	
118	Earthing: Supplying and fixing and wiring earth electrode for grounding consist R. earthpit and other equipments on the metal board in the lot. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete earth. The connection from the pipe to the conductor etc., is to established through GI wire of sizes as per clause 7.1.3 of IS 732 using 12mm bolts, nuts, washers and check nuts. the pipe shall have 19 through holes of 12mm dia (P. No.104, I. No. 41/ BWSSB DR 2021-22)	job	1.00	1.00	195.00	
119	Supply and fixing polished wood board made of teak together 12mm thick plank on teak slats of not more than 75mmwide fixing the same in the wall using special brackets/straps (steel screws / 25* x 25* x 3.5* (P.No. 11 Sr.5.1.8 Part-I Electrical SR 2021-22)	Each	1.00	1.00	540.00	
120	Supplying & fixing of Porcelain fuse channel with six way interlocking wooden insert using necessary nuts, bolts and washers. 63 A (P No.11 Sr.5.1.4 Part-I Electrical SR 2021-22)	Each	1.00	1.00	100.00	
121	Supplying & fixing miniature circuit breakers on existing/MCD distribution boards using necessary fixing materialsand C Type curve, indicator ON/OFF, energy meter,7 worldwide current breaking capacity of 10K and complete wiring, energized and fixing in D.C 30MM (0.63 A TPN	Each	1.00	1.00	450.00	
122	Earth work excavation by manual means for drains,canals, water mains, canals, approach channels, any trenches, foundations of bridges and such similar works in all kinds of soils as per drawing and technical specifications, including sorting out, shoring, strutting, barricading, caution lights, removal of stumps and other obstructions metals, assembled surfaces brushed and stake neatly dressed disposing off the excavated stuff or setting & stacking the selected stuff for reuse in a radius of 50 m and Lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work Loading and Unloading of Stone Boulder/Stone aggregates Sand/Kankar/Moorum.	Cum	32.80	32.80	180.00	
123	Anchoring and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	Cum	5.40	5.40	660.00	

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124	Supplying PVC shutter pipes conforming to IS 4985:2000 with latest amendments and connecting to manhole, existing and intersecting pipe sewerlines, laying them in clear sand bed and perfect bedding of pipes, jointing and commissioning, including backing excluding at bed Approaching and exit of pipes wherever necessary including jointing of PVC pipes and manhole (excluding cost of manhole) with jointing of approved type, with all labour with all lead & lift including ensuring the pipe alignment to a depth of not less than 1.5 mtrs, with soft gravel or selected earth available near the excavation etc, complete and giving necessary hydraulic test to the required pressure as per IS. If necessary will make his own arrangements for pumping water for testing etc. Note: Spec 1.0 mtrs dia Rig mark & class 3 for	Mtr	40.00	40.00	800.00	
125	Refilling available earth around manhole/pipelines, cables in layers not exceeding 25 cms in depth, compacting each approved layer by ramming after watering with a hand rammer 30 to 40 cms 1.5 mt. including cost of all labour complete as per specifications	Cum	10.80	10.80	108.00	
126	Supplying, fully automatic star-delta starter unit made Instrumcon with suitable wires, 3 contactors, one adjustable/thermal timer mounted on a common base plate built in steel enclosure for use on 400 Volt A.C 3 phase and wired after fixing in the existing switch board for motor 45kw/11.2 HP upto 25 HP	Nos	1.00	1.00	100.00	
127	Fabricating supplying and mounting MS box of 14 SWG sheets for floor wall mounting, fully enabled panel with provisions for meter base arrangement, provided with hinged front cover, equipped with simple pencil locking arrangements, with suitable size GA with necessary cable entry pipe with gland and box should be finished with 2 bake enamelled with powder coated paint and finally finished with approved colour etc., complete and as per the directions of the Engineer-in-charge of the work.	Sq.mt	22000.00	22000.00	100.00	
128	Labour charges for erection of outdoor type panel board and meter boardboxes with all necessary materials and fittings, wires and appurtenances including providing suitable concrete foundation bed etc., complete as per specifications, with testing of as per connections and as per the directions of the Engineer-in-charge of the work.	LS	1.00	1.00	100.00	
129	Chipping of rough coat (plaster) to RCC any works including the breaks in the required ground level and cross-chasing etc., complete making road surface and as per the directions of the Engineer-in-charge of the work.	Mtr	25.00	25.00	100.00	
130	Carrying, Supplying and laying and testing earth electrode for grounding consists 8" copper and other appurtenance on the name board as per set. The pits should be filled up with alternate properties of salt and charcoal 15 times around the point to complete depth. The connection from the pipe to the manhole etc, is to established through 12 mtrs of main as per clause 5.3.3 of IS: 732 using 2 Gate bolts, nuts, washers and check nuts; the pipe shall have 10 through holes of 12mm dia and as per the directions of the Engineer-in-charge of the work.	LS	1.00	1.00	900.00	
131	Supply and delivery of one of brand new ball valve gate valve as per IS: 778:1984 with ISI Mark and as per cast steel manufacture from 50 mm and as per the directions of the Engineer-in-charge of the work.	Each	1.00	1.00	100.00	
132	Supply and delivery of one of brand new flow meter non return valve as per IS: 778:1984 with ISI Mark and as per cast steel manufacture from 50 mm and as per the directions of the Engineer-in-charge of the work.	Each	1.00	1.00	100.00	
133	Supplying, laying and jointing (HDPE) pipes of specified grade underconveying as IS 4984-2016 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying pipe in line and jointing of pipes and sockets with manufacturers welding, giving hydraulic test as per relevant IS/S with all lead and lifts including ensuring the pipe alignment to a depth of not less than 1.5 mtrs with soft gravel or selected earth available near the excavation, making and commissioning. The rate is inclusive of required sockets and fittings whatever necessary like saddle Tee, side outlet, flanged nuts, bolts, reducers etc. complete (Contractor will make his own arrangements for pumping water for testing) etc. Note: Spec 1.0 mtrs dia Cost shall be used For Grade PE80 PN12.5 (C) mtr Dia	Mtr	125.00	125.00	100.00	

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Executive Engineer
B.B.M.P. Bommanahalli-10